RAW SEQUENCE LISTING PATENT APPLICATION US/08/461,652

#2

DATE: 07/06/95 TIME: 10:10:59

INPUT SET: S4628.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

1		SEQUENCE LISTING	
2	(1) G	eneral Information:	
4 5	(i)	APPLICANT: Kwon, Byoung Se	
6 7 8 9	(ii)	TITLE OF INVENTION: New Receptor and Releated P. Methods	roducts and
10 11	(iii)	NUMBER OF SEQUENCES: 8	
12 13 14 15 16 17 18	(iv)	CORRESPONDENCE ADDRESS: (A) ADDRESSEE: Barnard, Brown & Michaels (B) STREET: 306 East State Street, Suite 220 (C) CITY: Ithaca (D) STATE: NY (E) COUNTRY: USA (F) ZIP: 14850	
20 21 22 23 24 25	(V)	COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk (B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: PatentIn Release #1.0, Version #	1.30
26 27 28 29	(vi)	CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: US (B) FILING DATE: (C) CLASSIFICATION:	
31 32 33 34	(vii)	PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: US 08/122,796 (B) FILING DATE: 13-SEP-1993	
35 36 37 38	(vii)	PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: US 08/012,269 (B) FILING DATE: 01-FEB-1993	
39 40 41 42	(vii)	PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: US 07/922,996 (B) FILING DATE: 30-JUL-1992	
43 44 45 46	(vii)	PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: US 08/267,577 (B) FILING DATE: 07-NOV-1988	

RAW SEQUENCE LISTING PATENT APPLICATION US/08/461,652

DATE: 07/06/95 TIME: 10:11:04

INPUT SET: S4628.raw

```
(viii) ATTORNEY/AGENT INFORMATION:
47
               (A) NAME: Michaels, Christopher A
48
               (B) REGISTRATION NUMBER: 34,390
49
50
               (C) REFERENCE/DOCKET NUMBER: KWO4
51
         (ix) TELECOMMUNICATION INFORMATION:
52
53
               (A) TELEPHONE: 607-273-1711
54
               (B) TELEFAX: 607-273-2609
55
56
    (2) INFORMATION FOR SEQ ID NO:1:
57
58
          (i) SEQUENCE CHARACTERISTICS:
59
60
               (A) LENGTH: 838 base pairs
61
               (B) TYPE: nucleic acid
62
               (C) STRANDEDNESS: double
               (D) TOPOLOGY: linear
63
64
65
       (ii) MOLECULE TYPE: cDNA to mRNA
66
67
        (iii) HYPOTHETICAL: NO
68
69
         (iv) ANTI-SENSE: NO
70
71
         (vi) ORIGINAL SOURCE:
72
               (A) ORGANISM: Homo sapiens
73
               (C) INDIVIDUAL ISOLATE: H4-1BB #1
74
               (D) DEVELOPMENTAL STAGE: Differentiated T-cell
75
               (G) CELL TYPE: Lymphocyte
76
77
         (ix) FEATURE:
78
               (A) NAME/KEY: CDS
79
               (B) LOCATION: 41..805
80
               (D) OTHER INFORMATION: /codon start= 41
       /product= "H4-1BB"
81
       /number= 1
82
83
84
         (ix) FEATURE:
85
               (A) NAME/KEY: mat_peptide
86
               (B) LOCATION: 41..802
87
               (D) OTHER INFORMATION: /codon start= 41
88
      /product= "H4-1BB"
89
      /number= 1
90
91
92
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
93
94
    AATCAGCTTT GCTAGTATCA TACCTGTGCC AGATTTCATC ATG GGA AAC AGC TGT
                                                                               55
95
                                                   Met Gly Asn Ser Cys
96
97
    TAC AAC ATA GTA GCC ACT CTG TTG CTG GTC CTC AAC TTT GAG AGG ACA
98
                                                                              103
    Tyr Asn Ile Val Ala Thr Leu Leu Leu Val Leu Asn Phe Glu Arg Thr
```

RAW SEQUENCE LISTING PATENT APPLICATION US/08/461,652

DATE: 07/06/95 TIME: 10:11:09

											•						
														IN	<i>PUT</i>	SET: S4628.	raw
100					10					15					20		
101																	
102	AGA	TCA	TTG	CAG	GAT	CCT	TGT	AGT	AAC	TGC	CCA	GCT	GGT	ACA	TTC	TGT	151
103	Arg	Ser	Leu	Gln	Asp	Pro	Cys	Ser	Asn	Cys	Pro	Ala	Gly	Thr	Phe	Cys	
104	_	- 1		25	_		_		30	-			_	35	1	_	
105															•		
106	GAT	ААТ	AAC	AGG	ААТ	CAG	ATT	TGC	AGT	CCC	TGT	CCT	CCA	ААТ	AGT	TTC	199
107												Pro					
108	E		40	5	••			45			-1-		50				
109					•								, ••				
110	TCC	N.C.C	GCA	CCT	GGA	CAA	NGG.	ACC	ጥርጥ	GAC	מידה	TGC	ACC	CAG	тст	***	247
111												Cys					241
	Set		мта	сту	GLY	GIII	_	1111	Cys	ASP	TTE		Arg	GIH	Cys	гур	
112		55					60					65					
113																a.a	005
114												ACC					295
115		Val	Phe	Arg	Thr	_	Lys	GLu	Cys	Ser		Thr	Ser	Asn	Ala		
116	70					75					80					85	
117																	
118												GCA					343
119	Cys	Asp	Cys	Thr	Pro	Gly	Phe	His	Cys	Leu	Gly	Ala	Gly	Cys	Ser	Met	
120					90					95				•	100		
121																	
122	TGT	GAA	CAG	GAT	TGT	AAA	CAA	GGT	CAA	GAA	CTG	ACA	AAA	AAA	GGT	TGT	391
123	Cys	Glu	Gln	Asp	Cys	Lys	Gln	Gly	Gln	Glu	Leu	Thr	Lys	Lys	Gly	Cys	
124	=			105	_	_	•	_	110				_	115	_	_	
125																	
126	AAA	GAC	TGT	TGC	TTT	GGG	ACA	TTT	AAC	GAT	CAG	AAA	CGT	GGC	ATC	TGT	439
127												Lys					
128			120	- 3		3		125				-4	130	-		•	
129																	
130	CGA	CCC	TGG	ACA	AAC	тст	ጥርጥ	ጥጥር	СΔТ	GGA	ΔAG	TCT	GTG	СТТ	GTG	ΔΔΨ	487
131												Ser					10,
132	n. g	135	115		ADII	C y D	140	шсц	nop	OL,	2,5	145	• • • •	200		AUII	
133		133					140					113					
134	CCC	N.C.C	220	CAC	ACC	CAC	OTTO	CTC	TO TO	CCA	CCA	TCT	CCA	CCT	CAC	CTC	535
135												Ser					333
136	_	1111	цуз	Giu	Arg	_	vaı	Val	Çys	GLY	160	361	FIG	АТО	ASP	165	
	150					155					100					103	
137	шаш	000	CC 3	003	maa	mam	ama	100	000	aam	000	COM	000	202	a.a	aa.	E02
138												CCT					583
139	ser	Pro	GTÀ	АТа		ser	vaı	inr	Pro		Ата	Pro	АТа	Arg		Pro	
140					170					175					180		
141														•			
142												GCG					631
143	Gly	His	Ser		Gln	Ile	Ile	Ser		Phe	Leu	Ala	Leu		Ser	Thr	
144				185					190					195			
145																	
146	GCG	TTG	CTC	TTC	CTG	CTG	TTC	TTC	CTC	ACG	CTC	CGT	TTC	TCT	GTT	GTT	679
147	Ala	Leu	Leu	Phe	Leu	Leu	Phe	Phe	Leu	Thr	Leu	Arg	Phe	Ser	Val	Val	
148			200					205					210				
149																	
150	AAA	CGG	GGC	AGA	AAG	AAA	CTC	CTG	TAT	ATA	TTC	AAA	CAA	CCA	TTT	ATG	727
151												Lys					
152	-	215	-		-	-	220		-			225					
							-										

RAW SEQUENCE LISTING PATENT APPLICATION US/08/461,652

DATE: 07/06/95 TIME: 10:11:14

INPUT SET: \$4628.raw

														II	VPUT	SET: S	54628.1	aw
153 154 155 156 157				CAA Gln														775
158 159 160				GAA Glu								AATG	GAA (GTCA	ATAGO	GG .		825
161 162 163 164	CTG'	rtgg(GAC '	ттт			`											838
165 166	(2)	INF	ORMA'	TION	FOR	SEQ	ID I	10:2										
167 168 169 170		(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 255 amino acids(B) TYPE: amino acid(D) TOPOLOGY: linear																
171 172 173		,	·	MOLE			-				VO . (.						
174 175		(:	XI) :	SEQUI	SNCE	DESC	CRIP.	LTON	: SE	5 ID	NO:	2 :						
176 177 178	Met 1	Gly	Asn	Ser	Cys 5	Tyr	Asn	Ile	Val	Ala 10	Thr	Leu	Leu	Leu	Val 15	Leu		
179 180 181	Asn	Phe	Glu	Arg 20	Thr	Arg	Ser	Leu	Gln 25	Asp	Pro	Cys	Ser	Asn 30	Cys	Pro		
182 183 184	Ala	Gly	Thr 35	Phe	Cys	Asp	Asn	Asn 40	Arg	Asn	Gln	Ile	Cys 45	Ser	Pro	Cys		
185 186 187	Pro	Pro 50	Asn	Ser	Phe	Ser	Ser 55	Ala	Gly	Gly	Gln	Arg 60	Thr	Cys	Asp	Ile		
188 189 190	Cys 65	Arg	Gln	Cys	Lys	Gly 70	Val	Phe	Arg	Thr	Arg 75	Lys	Glu	Cys	Ser	Ser 80		
191 192 193	Thr	Ser	Asn	Ala	Glu 85	Cys	Asp	Cys	Thr	Pro 90	Gly	Phe	His	Cys	Leu 95	Gly		
194 195 196	Ala	Gly	Cys	Ser 100	Met	Cys	Glu	Gln	Asp 105	Cys	Lys	Gln	Gly	Gln 110	Glu	Leu		
197 198 199	Thr	Lys	Lys 115	Gly	Cys	Lys	Asp	Cys 120	Cys	Phe	Gly	Thr	Phe 125	Asn	Asp	Gln		
200 201 202	_	Arg 130	Gly	Ile	Cys	Arg	Pro 135	Trp	Thr	Asn	Cys	Ser 140	Leu	Asp	Gly	Lys		
203 204 205	Ser 145	Val	Leu	Val	Asn	Gly 150	Thr	Lys	Glu	Arg	Asp 155	Val	Val	Cys	Gly	Pro 160		

258

RAW SEQUENCE LISTING PATENT APPLICATION US/08/461,652

DATE: 07/06/95 TIME: 10:11:19

														IN	PUT	SET:	S4628.	raw	
206	Ser	Pro	Ala	αsA	Leu	Ser	Pro	Glv	Ala	Ser	Ser	Val	Thr						
207					165			1		170					175				
208																			
209	Pro	Ala	Arq	Glu	Pro	Gly	His	Ser	Pro	Gln	Ile	Ile	Ser	Phe	Phe	Leu			
210			3	180					185					190					
211														-					
212	Ala	Leu	Thr	Ser	hr	Ala	Leu	Leu	Phe	Leu	Leu	Phe	Phe	Leu	Thr	Leu			
213			195					200					205						
214																			
215	Ara	Phe	Ser	Val	Val	Lvs	Ara	Glv	Ara	Lvs	Lvs	Leu	Leu	Tvr	Ile	Phe			
216	5	210				-1-	215	1	9	-1-	-,-	220		- 1 -					
217																			
218	I.vs	Gln	Pro	Phe	Met	Ara	Pro	Val	Gln	Thr	Thr	Gln	Glu	Glu	Asp	Glv			
219	225	02				230			٠		235					240			
220	223					230					200					210			
221	Cvc	Ser	Cvs	Δra	Phe	Pro	Glu	@lu	Glu	alu	Glv	Glv	Cvs	Glu	T.eu				
222	Cys	Ser	Cys	Arg	245	110	GIU	GIU	GIU	250	Cry	GLY	Cys	GIG	255				
223					243					230					233		÷		
223	121	INFO	יגשמי	PTON	EVD	SEV	TD 1	4O • 3											
225	(2)	TIVE)I(UIA	LION	LOK	PRQ	יייי		•										
226		/ i \	CEC	TIEN	ים מי	13 D 3 C	יסקייי	T CTT	70.	,									
227	(i) SEQUENCE CHARACTERISTICS:																		
228	(A) LENGTH: 20 base pairs (B) TYPE: nucleic acid																		
229	(B) TYPE: NUCLEIC acid (C) STRANDEDNESS: single																		
230	(C) STRANDEDNESS: SINGLE (D) TOPOLOGY: linear																		
231	(D) IOLOFOGI: TIMEST																		
232	(ii) MOLECULE TYPE: other nucleic acid																		
232	(11) MOLECULE TYPE: Other nucleic acid (A) DESCRIPTION: /desc = "PCR Primer"																		
234	(A) DESCRIPTION: / desc = "PCR Primer"																		
235	(iii) HUDOTHETTCAL. NO																		
236	(iii) HYPOTHETICAL: NO																		
237		/ i 17 \	ANT	PT _ SI	ence.	• NO													
238		(_ v)																	
239																			
240																			
241																			
241		/ v i \	QP/	אישוור	ית קי	ימטאי	ר סיידי	N. 9	SEO 1	יא מז	7 . 2 .								
242	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:																		
243	դուս	rgymo	י גגי	י גיים מ	788V	70												20	1
244	III.	GIMO	ann i	TCIM:	. AAI													۷. ۱	,
245 246	121	INFO	י איז עם ר	יא 🌣 דים	EUD	QP0	י חד	ν 10 • 4											
246	(2)	TMLC	'AMA'	TON	FUR	Э₽Õ	ו עב	10:4	•										
247		/ - 1	C E C	יאיפוזר	ים מי	HARAG	ים קוף ר	T CITY	re.										
		(T)				14KA0													
249																			
250						nucl													
251						DEDNE			те										
252			(1	ד (ט)FOT(OGY:	TING	ear											
253						ים מי			7										
254		(11)							uclei										
255			()	A) DI	SCR.	rb.î.ĭ.()N: /	aes	c = '	PCR	Prin	ner"							
256																			
257		(iii)	HYI	POTH	STIC	AL: 1	ON												
250																			

SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/08/461,652

DATE: 07/06/95 TIME: 10:11:24

INPUT SET: S4628.raw

Line

Error

Original Text

27

Wrong application Serial Number

(A) APPLICATION NUMBER: US